


INFORMATION DISCLOSURE STATEMENT 	Atty. Docket No.: 110.01130101	Serial No.: 09/600,432
	Applicant(s): McCarthy et al.	Confirmation No.: 3387
	Filing Date: October 2, 2000 Int'l Filing Date: January 21, 1999	Group: 1653

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U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date	Appropriate
DL	5,116,368	05/26/92	McCarthy et al.	623	002		
DL	5,731,409	03/24/98	Fields et al.	530	324		
DL	6,013,628	01/11/00	Skubitz et al.	514	12		

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FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation
						Yes No
DL	EP 347 890 B1	12/27/89	Europe			
DL ✓	EP 576 898 A3	01/05/94	Europe			
DL	WO 00/56350 A3	09/28/00	PCT			

OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)

Examiner Initial	Document Description
DL	American Type Culture Collection, "ATCC Number 25923," organism: <i>Staphylococcus aureus</i> ; designation: Seattle 1945 [online]; Manassas, VA [retrieved on 2002-02-06] from the Internet. Retrieved from the Internet: <URL: http://phage.atcc.org/cgi-bin/searchengine/longview.cgi?view=ba,4359370,25923&text=25923 >, 3 pages.
	Cue et al., "A nonpeptide integrin antagonist can inhibit epithelial cell ingestion of <i>Streptococcus pyogenes</i> by blocking formation of integrin alpha 5beta 1-fibronectin-M1 protein complexes," <i>Proceedings of the National Academy of Sciences, USA</i> , 97(6):2858-63 (2000).
	Duan et al., "Enhancement of nigral graft survival in rat brain with the systemic administration of synthetic fibronectin peptide V," <i>Neuroscience</i> , 100(3):521-30 (2000).
	Humphries et al., "An Anthropomorphic Integrin," <i>Science</i> , 294(5541):316-7 (2001).
DL	Lasky, "How Integrins Are Activated," <i>Nature</i> , 390(6655):15, 17 (1997).

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David Lutter

Date Considered

5/7/03

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**INFORMATION
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Atty. Docket No.: 110.0113 0101

Serial No.: 09/600,432

Applicant(s): James B. McCarthy et al.

Filing Date: 2 October 2000

Int'l Filing Date: 21 January 1999

Group: 164

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U.S. PATENT DOCUMENTS

Examiner Initial	Copy Enclosed	Document Number	Date	Name	Class	SubClass	Filing Date If Appropriate
X		4,839,464	06/13/89	McCarthy et al.			
X		4,938,949	07/03/90	Borch et al.			
X		5,019,646	05/28/91	Furcht et al.			
X		5,147,797	09/15/92	McCarthy et al.			
X		5,171,271	12/15/92	Furcht et al.			
X		5,278,063	01/11/94	Hubbell et al.			
X		5,294,551	03/15/94	Furcht et al.			
X		5,330,911	07/19/94	Hubbell et al.			
X		5,380,668	01/10/95	Herron			
DL	✓	5,382,569	01/17/95	Cody et al.	514	17	
X		5,545,620	08/13/96	Wahl et al.			
X		5,591,719	01/07/97	Furcht et al.			
X		5,595,887	01/21/97	Coolidge et al.			
X		5,710,123	01/20/98	Heavner et al.			
X		5,744,515	04/28/98	Clapper			
X		5,840,691	11/24/98	Furcht et al.			
X		5,846,536	12/08/98	Bissell et al.			
X		5,853,744	12/29/98	Mooradian et al.			

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							Yes	No
DL		0 347 890 A1	12/27/89	EPO				
	DL	0 576 898 A2	01/05/94	EPO				
X	✓	JP 6016568	01/25/94	Japan (English language abstract only)				X
DL	DL	WO 89/01942	03/09/89	PCT				
DL	DL	WO 93/17047	09/02/93	PCT				
	DL	WO 94/17097	08/04/94	PCT				

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		Document Number	Date	Country	Class	SubClass	Yes	No
X		WO 97/23451	07/03/97	PCT (with English language abstract)				X
X		WO 98/00395	01/08/98	PCT (with English language abstract)				X
X		WO 99/37669	07/29/99	PCT				
X		WO 00/56350	09/28/00	PCT				

OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)

Examiner Initial	Copy Enclosed	
DL	✓	Adelsman et al., "Stimulation of β 1-Integrin Function by Epidermal Growth Factor and Heregulin- β Has Distinct Requirements for erbB2 but a Similar Dependence on Phosphoinositide 3-OH Kinase," <u>Molecular Biology of the Cell</u> , 10(9):2861-2878 (September, 1999).
DL	✓	Akiyama et al., "Fibronectin" <u>Advances in Enzymology and Related Areas of Molecular Biotechnology</u> , vol. 59, Meister, ed., John Wiley and Sons, New York, Title page, publication page, and pages 1-57 (1987).
DL	✓	Boykin et al., "In Vivo Microcirculation of a Scald Burn and the Progression of Postburn Dermal Ischemia," <u>Plastic and Reconstructive Surgery</u> , 66(2):191-198 (1980).
DL	✓	Brienzo, <u>Identification of a novel anti-adhesion integrin-binding motif within a fibronectin synthetic peptide</u> , PhD Thesis, University of Minnesota, 120 pages (1998).
DL	✓	Bruck et al., "The Use of Synthetic Analogues of Arg-Gly-Asp (RGD) and Soluble Receptor of Tumor Necrosis Factor to Prevent Acute and Chronic Experimental Liver Injury," <u>Yale Journal of Biology and Medicine</u> , 70(4):391-402 (1997).
DL	✓	Carrico et al., "Chapter 12: Transfusion, Autotransfusion, and Blood Substitutes," <u>Trauma</u> , 4 th ed., Mattox et al., eds., McGraw-Hill Co., Inc., United States, Publication page and pages 233-243 (2000).

EXAMINER <i>David Letter</i>	Date Considered 5/7/03
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X	✓	Chappell et al., "Inhibition of Leukocyte-Mediated Tissue Destruction by Synthetic Fibronectin Peptide (Trp-9-Tyr)," <u>Journal of Burn Care and Rehabilitation</u> , 20(6):505-510 (November, 1999); presented at 31 st Annual Meeting, American Burn Association, March 24-27, Lake Buena Vista, FL, (March 25, 1999)..
DL	✓	Fields et al., "Chapter 3: Principles and Practice of Solid-Phase Peptide Synthesis," <u>Synthetic Peptides: A User's Guide</u> , Grant, ed., W. H. Freeman & Co., New York, title page, publication page, table of contents, and pages 77-183 (1992).
DL	✓	Furcht et al., "Editorial: Tumor Cell Invasion, Matrix Metalloproteinases, and the Dogma," <u>Laboratory Investigation</u> , 70(6):781-783 (1994).
DL	✓	Guan et al., "Lymphoid Cells Recognize an Alternatively Spliced Segment of Fibronectin via the Integrin Receptor $\alpha_4\beta_1$," <u>Cell</u> , 60(1):53-61 (1990).
DL	✓	Guo et al., "Fibronectin Peptide (FN C/H V-Y) Assay and Stability in Human and Rat Plasma," Abstract 4029, American Association of Pharmaceutical Scientists Annual Meeting, November 14-18, New Orleans, LA (1999).
DL	✓	Hallenbeck et al., "Polymorphonuclear Leukocyte Accumulation in Brain Regions with Low Blood Flow During the Early Postischemic Period," <u>Stroke</u> , 17(2):246-253 (1986).
DL	✓	Hines et al., "Synthetic fibronectin peptides interrupt inflammatory cell infiltration in transforming growth factor $\beta 1$ knockout mice," <u>Proceedings of the National Academy of Sciences, USA</u> , 91(11):5187-5191 (1994).
DL	✓	Huebsch et al., "Endothelial Cell Interactions With Synthetic Peptides From the Carboxyl-Terminal Heparin-Binding Domains of Fibronectin," <u>Circulation Research</u> , 77(1):43-53 (1995).
DL	✓	Humphries et al., "A Synthetic Peptide from Fibronectin Inhibits Experimental Metastasis of Murine Melanoma Cells," <u>Science</u> , 233(4762):467-470 (1986).
DL	✓	Hynes, "Integrins: A Family of Cell Surface Receptors," <u>Cell</u> , 48(4):549-554 (1987).
DL	✓	Iida et al., "Coordinate Role for Cell Surface Chondroitin Sulfate Proteoglycan and $\alpha 4\beta 1$ Integrin in Mediating Melanoma Cell Adhesion to Fibronectin," <u>The Journal of Cell Biology</u> , 118(2):431-444 (1992).
DL	✓	Jackson et al., "Potent $\alpha 4\beta 1$ Peptide Antagonists as Potential Anti-Inflammatory Agents," <u>Journal of Medicinal Chemistry</u> , 40(21):3359-3368 (1997).

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EXAMINER <i>David Luth</i>	Date Considered 5/7/03
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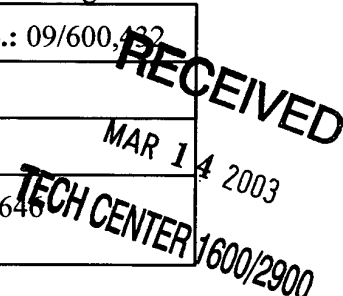
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JS	✓	Johnson, "8. The Cutaneous Circulation," <u>Laser-Doppler Blood Flowmetry</u> , Shepherd et al., eds., Kluwer Academic Publishers, Norwell, MA, Title page, publication page, and pages 121-139 (1990).
JS	✓	Kochanek et al., "Polymorphonuclear Leukocytes and Monocytes/Macrophages in the Pathogenesis of Cerebral Ischemia and Stroke," <u>Stroke</u> , 23(9):1367-1379 (1992).
JS	✓	Lasky, "Selectins: Interpreters of Cell-Specific Carbohydrate Information During Inflammation," <u>Science</u> , 258(5084):964-969 (1992).
X		Lasz et al., "β ₃ Integrin Derived Peptide 217-230 Inhibits Fibrinogen Binding and Platelet Aggregation: Significance of RGD Sequences and Fibrinogen Aα Chain," <u>Biochemical and Biophysical Research Communications</u> , 190(1):118-124 (1993).
JS	✓	Lauer et al., "Inhibition of Melanoma Cell Binding to Type IV Collagen by Analogs of Cell Adhesion Regulator," <u>Journal of Medicinal Chemistry</u> , 40(19):3077-3084 (1997).
JS	✓	Levrey et al., "Induction of Fibroblast Apoptosis by Soluble Fibronectin Peptides," Abstract 1050, 37 th Annual Meeting of the American Society for Cell Biology, December 13-17, 1997, Washington, D.C., <u>Molecular Biology of the Cell</u> , 8:181A (November, 1997).
JS	✓	Lobb et al., "Small molecule antagonists of α4 integrins: novel drugs for asthma," <u>Exp. Opin. Invest. Drugs</u> , 8(7):935-945 (July, 1999).
JS	✓	Madden et al., "A peptide derived from neutrophil inhibitory factor (NIF) blocks neutrophil adherence to endothelial cells," <u>Inflammation Research</u> , 46(6):216-223 (1997).
JS	✓	Matsuo et al., "Role of Neutrophils in Radical Production During Ischemia and Reperfusion of the Rat Brain: Effect of Neutrophil Depletion on Extracellular Ascorbyl Radical Formation," <u>Journal of Cerebral Blood Flow and Metabolism</u> , 15(6):941-947 (1995).
JS	✓	McCarthy et al., "Laminin and Fibronectin Promote the Haptotactic Migration of B16 Mouse Melanoma Cells In Vitro," <u>The Journal of Cell Biology</u> , 98(4):1474-1480 (1984).
JS	✓	McCarthy et al., The role of cell adhesion proteins - laminin and fibronectin - in the movement of malignant and metastatic cells," <u>Cancer and Metastasis Reviews</u> , 4(2):125-152 (1985).

EXAMINER <i>David L. Lott</i>	Date Considered <i>5/7/03</i>
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<i>DL</i>	✓	McCarthy et al., "Human Fibronectin Contains Distinct Adhesion- and Motility-promoting Domains for Metastatic Melanoma Cells," <u>The Journal of Cell Biology</u> , 102(1):179-188 (1986).
<i>DL</i>	✓	McCarthy et al., "Localization and Chemical Synthesis of Fibronectin Peptides with Melanoma Adhesion and Heparin Binding Activities," <u>Biochemistry</u> , 27(4):1380-1388 (1988).
<i>DL</i>	✓	McCarthy et al., "Metastasis Inhibition of Different Tumor Types by Purified Laminin Fragments and a Heparin-Binding Fragment of Fibronectin," <u>Journal of the National Cancer Institute</u> , 80(2):108-116 (1988).
<i>DL</i>	✓	McCarthy et al., "RGD-independent Cell Adhesion to the Carboxy-terminal Heparin-binding Fragment of Fibronectin Involves Heparin-dependent and -independent Activities," <u>The Journal of Cell Biology</u> , 110(3):777-787 (1990).
<i>DL</i>	✓	McCarthy et al., "Tumor cell adhesive mechanisms and their relationship to metastasis," <u>Seminars in Cancer Biology</u> , 2(3):155-167 (1991).
<i>DL</i>	✓	McCartney-Francis et al., "Autoimmune Sjögren's-Like Lesions in Salivary Glands of TGF- β 1-Deficient Mice Are Inhibited by Adhesion-Blocking Peptides," <u>The Journal of Immunology</u> , 157(3):1306-1312 (1996).
<i>DL</i>	✓	McCartney-Francis et al., "Lacrimal Gland Inflammation Is Responsible for Ocular Pathology in TGF- β 1 Null Mice," <u>American Journal of Pathology</u> , 151(5):1281-1288 (1997).
<i>DL</i>	✓	Mileski et al., "Streptococcus Pneumoniae-Stimulated Macrophages Induce Neutrophils to Emigrate by a CD18-Independent Mechanism of Adherence," <u>Circulatory Shock</u> , 31(3):259-267 (1990).
<i>DL</i>	✓	Mileski et al., "Inhibition of Leukocyte-Endothelial Adherence following Thermal Injury," <u>Journal of Surgical Research</u> , 52(4):334-339 (1992).
<i>DL</i>	✓	Mileski et al., "The Accuracy of Burn Wound Assessment by Laser Doppler Flowmetry is Improved by Serial Measurements," Abstract 31, 31 st Annual Meeting, American Burn Association, March 24-27, Lake Buena Vista, FL, (March, 1999).
<i>DL</i>	✓	Mohri, "Interaction of Fibronectin With Integrin Receptors: Evidence by Use of Synthetic Peptides," <u>Peptides</u> , 18(6):899-907 (1997).
<i>DL</i>	✓	Moyle et al., "A Hookworm Glycoprotein That Inhibits Neutrophil Function Is a Ligand of the Integrin CD11b/CD18," <u>The Journal of Biological Chemistry</u> , 269(13):10008-10015 (1994).

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<i>DL</i>	✓	Norgard-Sumnicht et al., "Calcium-Dependent Heparin-Like Ligands for L-Selectin in Nonlymphoid Endothelial Cells," <u>Science</u> , <u>261</u> (5120):480-483 (1993).
X	✓	Nwariaku et al., "Inhibition of Selectin- and Integrin-Mediated Inflammatory Response after Burn Injury" <u>Journal of Surgical Research</u> , <u>63</u> (1):355-358 (1996).
<i>DL</i>	✓	Parker et al., "New Hydrophilicity Scale Derived from High-Performance Liquid Chromatography Peptide Retention Data: Correlation of Predicted Surface Residues with Antigenicity and X-ray-Derived Accessible Sites," <u>Biochemistry</u> , <u>25</u> (19):5425-5432 (1986).
<i>DL</i>	✓	Prosper et al., "Mobilization and Homing of Peripheral Blood Progenitors Is Related to Reversible Downregulation of $\alpha 4 \beta 1$ Integrin Expression and Function," <u>The Journal of Clinical Investigation</u> , <u>101</u> (11):2456-2467 (1998).
<i>DL</i>	✓	Radzicka et al., "Comparing the Polarities of the Amino Acids: Side-Chain Distribution Coefficients between the Vapor Phase, Cyclohexane, 1-Octanol, and Neutral Aqueous Solution," <u>Biochemistry</u> , <u>27</u> (5):1664-1670 (1988).
<i>DL</i>	✓	Ruoslahti, "Integrins," <u>The Journal of Clinical Investigation</u> , <u>87</u> (1):1-5 (1991).
X	X	Seki et al., "Quantitative Analysis of Digestion Resistant ACE Inhibitory Dipeptides by Small Intestinal Mucosa," <u>J. Jap. Soc. Food Sci. Technol.</u> , <u>43</u> (8):967-969, Japanese language article with English language abstract (1996).
<i>DL</i>	✓	Springer, "Adhesion receptors of the immune system," <u>Nature</u> , <u>346</u> (6283):425-434 (1990).
<i>DL</i>	✓	Springer, "Folding of the N-terminal, ligand-binding region of integrin α -subunits into a β -propeller domain," <u>Proceedings of the National Academy of Sciences USA</u> , <u>94</u> (1):65-72 (1997).
<i>DL</i>	✓	Wahl et al., "Synthetic Fibronectin Peptides Suppress Arthritits in Rats by Interrupting Leukocyte Adhesion and Recruitment," <u>The Journal of Clinical Investigation</u> , <u>94</u> (2):655-662 (1994).
<i>DL</i>	✓	Weiss, "Tissue Destruction by Neutrophils," <u>The New England Journal of Medicine</u> , <u>320</u> (6):365-376 (1989).
<i>DL</i>	✓	Woods et al., "A Synthetic Peptide from the COOH-Terminal Heparin-binding Domain of Fibronectin Promotes Focal Adhesion Formation," <u>Molecular Biology of the Cell</u> , <u>4</u> (6):605-613 (1993).

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